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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/733,569

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EXAMINER

HAROON, ADEEL

ART UNIT

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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/733,569	<b>Applicant(s)</b> LEE, CHOONG-JAE	
	<b>Examiner</b> ADEEL HAROON	<b>Art Unit</b> 2618	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 18 January 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-6 and 8-24 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-3, 7-11, 13-20, 23 and 24 is/are rejected.
- 7) ☒ Claim(s) 4, 5, 12, 21 and 22 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
- ☒ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                       | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Response to Amendment***

This action is responsive to the amendment filed 1/17/08. Claims 1-6 and 8-24 are pending.

### ***Information Disclosure Statement***

1. The information disclosure statement filed 1/7/08 fails to comply with 37 CFR 1.98(a)(1), which requires the following: (1) a list of all patents, publications, applications, or other information submitted for consideration by the Office; (2) U.S. patents and U.S. patent application publications listed in a section separately from citations of other documents; (3) the application number of the application in which the information disclosure statement is being submitted on each page of the list; (4) a column that provides a blank space next to each document to be considered, for the examiner's initials; and (5) a heading that clearly indicates that the list is an information disclosure statement. The information disclosure statement has been placed in the application file, but the information referred to therein has not been considered.

***Response to Arguments***

1. Applicant's arguments filed 1/17/08 have been fully considered but they are not persuasive.

Applicant argues that Jung does not disclose the added limitation of "wherein the upper cover and lower cover respectively have supporting portions that come into contact with each other to maintain an assembled state between the upper and lower cover." The examiner respectfully disagrees. Jung teaches supporting portions on main body, 4, that are "in contact with the contact portion of the folder 8"; therefore, teaching supporting portions on both upper and lower covers (Paragraph 55).

The applicant also argues that Jung does not disclose the folder portion being rotatably connected to the main body. The examiner respectfully disagrees. Jung discloses "a folder rotatively connected to the main body" (Paragraph 15).

Therefore, Jung discloses that amended limitations.

***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

3. Claims 1, 3, 8, 9, 11, 13-16, 20, 23, and 24 are rejected under 35 U.S.C. 102(a) as being anticipated by Jung (U.S. 2002/0128053).

With respect to claim 1, Jung discloses a folder type mobile terminal, element in figure 7 with an upper cover, element number 8, and lower cover, element number 4, wherein the upper cover and lower cover are configured to be attached so as to form a space there between (Paragraph 62). Jung teaches supporting portions on main body, 4, that are “in contact with the contact portion of the folder 8”; therefore, teaching supporting functions on both upper and lower covers (Paragraph 55). Jung also shows a display mounted in the space formed between the upper and lower covers in figure 7 (Column 3, lines 18-24). Jung further discloses an impact dispersing mechanism, 40 and 42, formed at edges of the covers to disperse an impact (Paragraph 62). Moreover, Jung teaches a first portion, element number 40, attached to the upper cover and a second portion, element number 42, attached to the lower cover and wherein a predetermined clearance in the form of an open air gap is maintained between the first portion and the second portion prior to an impact being applied to the upper cover (Paragraphs 68 and 69).

With respect to claim 3, Jung discloses a first rib, element number 40, formed to produce a constant width at an edge of the upper cover (Paragraph 68). Jung also discloses a second rib, element number 42, formed to protrude a constant width at an edge of the lower cover (Paragraph 69).

With respect to claim 8, Jung disclose a constant gap there between the first and second ribs, which is narrower the gap formed between the upper cover and display (Paragraphs 68 and 69).

With respect to claim 9, Jung discloses a folder type mobile terminal, element in figure 7 with an upper cover, element number 8, and lower cover, element number 4, wherein the upper cover and lower cover are configured to be attached so as to form a space there between (Paragraph 62). Jung also shows a display mounted in the space formed between the upper and lower covers in figure 7 (Column 3, lines 18-24). Jung further discloses an impact dispersing mechanism, 40 and 42, formed at edges of the covers to disperse an impact (Paragraph 62). Moreover, Jung teaches a first portion, element number 40, attached to the upper cover and a second portion, element number 42, attached to the lower cover and wherein a predetermined clearance in the form of an open air gap is maintained between the first portion and the second portion prior to an impact being applied to the upper cover (Paragraphs 68 and 69).

With respect to claim 11, Jung discloses a first rib, element number 40, formed to produce a constant width at an edge of the upper cover (Paragraph 68). Jung also discloses a second rib, element number 42, formed to protrude a constant width at an edge of the lower cover (Paragraph 69).

With respect to claims 13 and 14, Jung disclose a first gap of substantially constant height is formed between the first rib and the second rib when the first cover and the second cover are attached, and wherein a second gap of substantially constant

height is formed between an upper surface of the display and a lower surface of the first cover when the first cover and the second cover are attached (Paragraphs 68 and 69).

With respect to claims 15 and 16, Jung disclose that the height of the first gap is reduced when an external force is applied and the height of the second gap remains greater than the height of the first gap (Paragraphs 68 and 69).

With respect to claim 18, Jung discloses a folder type mobile terminal, element in figure 7 with an upper cover, element number 8, and lower cover, element number 4, wherein the upper cover and lower cover are configured to be attached so as to form a space there between (Paragraph 62). Jung also shows a display mounted in the space formed between the upper and lower covers in figure 7 (Column 3, lines 18-24). Jung discloses a first air gap of substantially constant height formed between a lower surface of the at least one first rib and an upper surface of the at least one second rib wherein the second gap of substantially constant height is formed between an upper surface of the display and a lower surface of the first housing, and wherein the height of the second gap is greater than the height of the first gap when the first housing is attached to the second housing (Paragraphs 68 and 69).

With respect to claim 20, Jung teaches that the height of the second gap remains greater than the height of the first gap when an external force is applied to the first housing (Paragraphs 68 and 69).

With respect to claim 23, Jung discloses a folder type mobile terminal (Paragraph 60).

With respect to claim 24, Jung discloses "a folder rotatively connected to the main body" (Paragraph 15).

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 2 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jung in view of Murray et al. (U.S. 6,011,699).

With respect to claims 2 and 10, the mobile terminal of Jung is described above in the discussion of claims 1 and 9. Jung does not specifically disclose a print circuit board. However, Murray et al. discloses a similar two cover folder type mobile terminal with a display, 346, mounted on a printed circuit board, 316, in the space formed between the two covers (Column 4, lines 36-43). Therefore, it would be obvious to one ordinary skill in the art at the time of the applicant's invention to include a printed circuit board as taught by Murray et al. in the Jung mobile terminal in order to provide signals to the display.



6. Claims 6, 17, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jung (U.S. 2002/0128053).

With respect to claims 6 and 17, Jung further discloses impact dispersing means, 58 and 60, that are formed at both the side edges of the upper and lower cover, respectively in another embodiment in figure 8. Therefore, it would be obvious to one of ordinary skill in the art to have the impact dispersing mechanisms at the side edges when a display is mounted in between in order to have more evenly spaced force dispersing mechanisms.

With respect to claim 19, the impact dispersing mechanism of Jung is described above in the discussion of claim 18. Jung shows a display screen in figure 7 but does not specifically disclose that the display is a LCD. However, the examiner takes Official Notice that LCD's are extremely well known in the art. Therefore, it would be obvious to one of ordinary skill in the art at the time of the applicant's invention to use a LCD in Lloyd's mobile terminal.

***Allowable Subject Matter***

7. Claims 4, 5, 12, 21, and 22 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Conclusion***

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ADEEL HAROON whose telephone number is (571)272-7405. The examiner can normally be reached on Monday thru Friday, 8:30 a.m. - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban can be reached on (571) 272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2618

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/A. H./

Examiner, Art Unit 2618

/Edward Urban/

Supervisory Patent Examiner, Art Unit 2618